

Day : Sunday
 Date: 8/13/2006

Time: 15:22:15

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = WIGGS

First Name = B

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10073513</u>	<u>6931879</u>	150	02/11/2002	CLOSED LOOP DIRECT EXPANSION HEATING AND COOLING SYSTEM WITH AUXILIARY REFRIGERANT PUMP	WIGGS, B. RYLAND
<u>10073515</u>	<u>6971248</u>	150	02/11/2002	METHOD AND APPARATUS FOR INHIBITING ICE ACCUMULATION IN HVAC SYSTEMS	WIGGS, B. RYLAND
<u>10127517</u>	<u>6789608</u>	150	04/22/2002	THERMALLY EXPOSED, CENTRALLY INSULATED GEOTHERMAL HEAT EXCHANGE UNIT	WIGGS, B. RYLAND
<u>10211112</u>	<u>6615601</u>	150	08/02/2002	SEALED WELL DIRECT EXPANSION HEATING AND COOLING SYSTEM	WIGGS, B. RYLAND
<u>10251190</u>	<u>6932149</u>	150	09/20/2002	INSULATED SUB-SURFACE LIQUID LINE DIRECT EXPANSION HEAT EXCHANGE UNIT WITH LIQUID TRAP	WIGGS, B. RYLAND
<u>10335514</u>	<u>6751974</u>	150	12/31/2002	SUB-SURFACE AND OPTIONALLY ACCESSIBLE DIRECT EXPANSION REFRIGERANT FLOW REGULATING DEVICE	WIGGS, B. RYLAND
<u>10616701</u>	Not Issued	41	07/10/2003	Sealed well direct expansion heating and cooling system, an optional geothermal heating and cooling system solar heating supplement, and an optional geothermal heating and cooling system water cooled supplement	WIGGS, B. RYLAND
<u>10757265</u>	Not	71	01/14/2004	DEEP WELL DIRECT	WIGGS, B.

	Issued			EXPANSION HEATING AND COOLING SYSTEM	RYLAND
<u>10804698</u>	Not Issued	41	03/19/2004	Deep well/long trench direct expansion heating/cooling system	WIGGS, B. RYLAND
<u>10815530</u>	Not Issued	61	04/01/2004	Heat pump dehumidification system	WIGGS, B. RYLAND
<u>10839670</u>	Not Issued	30	05/05/2004	Heat pump/direct expansion heat pump heating, cooling, and dehumidification system	WIGGS, B. RYLAND
<u>10842672</u>	<u>7080524</u>	150	05/10/2004	ALTERNATE SUB-SURFACE AND OPTIONAL ACCESSIBLE DIRECT EXPANSION REFRIGERANT FLOW REGULATING DEVICE	WIGGS, B. RYLAND
<u>10849316</u>	Not Issued	30	05/19/2004	Sub-surface tubing spacer means for direct expansion heating/cooling systems	WIGGS, B. RYLAND
<u>10852341</u>	Not Issued	30	05/24/2004	Vertically oriented direct exchange/geothermal heating/cooling system sub-surface tubing installation means	WIGGS, B. RYLAND
<u>10874018</u>	Not Issued	95	06/22/2004	HORIZONTAL AND VERTICAL DIRECT EXCHANGE HEATING/COOLING SYSTEM SUB-SURFACE TUBING INSTALLATION MEANS	WIGGS, B. RYLAND
<u>11249586</u>	Not Issued	30	10/13/2005	Capillary tube/plate refrigerant/air heat exchanger for use in conjunction with a method and apparatus for inhibiting ice accumulation in HVAC systems	WIGGS, B. RYLAND
<u>11252031</u>	Not Issued	30	10/17/2005	Method and apparatus for inhibiting frozen moisture accumulation in HVAC systems	WIGGS, B. RYLAND
<u>11288605</u>	Not Issued	25	11/29/2005	Direct exchange heating mode only heating means for vapor and/or liquid and/or fluid and/or solid and/or engine jacket water and/or pavement, with optional heat and/or waste heat supplement	WIGGS, B. RYLAND
<u>60439831</u>	Not Issued	159	01/14/2003	Deep well direct expansion heating/cooling system	WIGGS, B. RYLAND
<u>60456335</u>	Not Issued	159	03/20/2003	Deep well/long trench expansion heating/cooling system	WIGGS, B. RYLAND
<u>60722352</u>	Not Issued	20	09/30/2005	Mighty missile water source heating/cooling system vertical	WIGGS, B. RYLAND

				well water transport tubing insertion means	
<u>60722353</u>	Not Issued	20	09/30/2005	Mighty missile DX heating/cooling system vertical well copper tubing insertion means	WIGGS, B. RYLAND
<u>60806739</u>	Not Issued	20	07/07/2006	Advanced Direct Exchange Geothermal Heating/Cooling System Design	WIGGS, B. RYLAND
<u>60807712</u>	Not Issued	20	07/18/2006	Exterior Air-Source Heat Exchange Supplement For A Direct Exchange Geothermal Heating/Cooling System Design	WIGGS, B. RYLAND
<u>60820262</u>	Not Issued	20	07/25/2006	Exterior Air-Source Heat Exchange Supplement For A Water-Source Geothermal Heating/Cooling System Design	WIGGS, B. RYLAND
<u>06546294</u>	Not Issued	161	10/28/1983	PIGGY BACK WATER POWER GENERATOR	WIGGS, B. RYLAND
<u>06652841</u>	<u>4590386</u>	150	09/21/1984	PIGGY BACK WATER POWER GENERATOR	WIGGS, B. RYLAND
<u>07029994</u>	<u>4725195</u>	150	03/25/1987	ADVANCED PIGGYBACK WATER POWER GENERATOR	WIGGS, B. RYLAND
<u>07725962</u>	<u>5224357</u>	150	07/05/1991	MODULAR TUBE BUNDLE HEAT EXCHANGER AND GEOTHERMAL HEAT PUMP SYSTEM	WIGGS, B. RYLAND
<u>07839962</u>	<u>5419135</u>	150	02/21/1992	SPACE-BASED POWER GENERATOR	WIGGS, B. RYLAND
<u>07842468</u>	<u>5272879</u>	150	02/27/1992	MULTI-SYSTEM POWER GENERATOR	WIGGS, B. RYLAND
<u>08246813</u>	Not Issued	164	05/20/1994	HEAT PUMP SYSTEM HAVING AUTOMATIC ADJUSTABLE FLOW CONTROL VALVE	WIGGS, B. RYLAND
<u>08287844</u>	Not Issued	161	08/09/1994	ADVANCED IN-GROUND/IN-WATER HEAT EXCHANGE UNIT	WIGGS, B. RYLAND
<u>08432700</u>	Not Issued	161	05/02/1995	SUBTERRANEAN HEAT EXCHANGER HAVING EMBEDDED TUBES	WIGGS, B. RYLAND
<u>08530053</u>	<u>5623986</u>	250	09/19/1995	ADVANCED IN-GROUND/IN-WATER HEAT EXCHANGE UNIT	WIGGS, B. RYLAND
<u>08593361</u>	<u>5816314</u>	150	01/29/1996	GEOTHERMAL HEAT EXCHANGE UNIT	WIGGS, B. RYLAND
<u>08605547</u>	Not	161	02/26/1996	REFRIGERANT SYSTEM	WIGGS, B.

	Issued			ENERGY RECLAMATION DEVICE	RYLAND
<u>08634868</u>	5671608	150	04/19/1996	GEOTHERMAL DIRECT EXPANSION HEAT PUMP SYSTEM	WIGGS, B. RYLAND
<u>08884014</u>	Not Issued	161	06/27/1997	WATER ISOLATED MEDICAL PROTECTOR	WIGGS, B. RYLAND
<u>08915255</u>	5946928	150	08/20/1997	MINI TUBE AND DIRECT EXPANSION HEAT EXCHANGE SYSTEM	WIGGS, B. RYLAND
<u>08964479</u>	Not Issued	161	11/05/1997	HYDROGEN TRAIN SYSTEM	WIGGS, B. RYLAND
<u>11363777</u>	Not Issued	20	02/28/2006	Cemetitious grout and methods of using same	WIGGS, B. RYLAND
<u>60471585</u>	Not Issued	159	05/19/2003	Deep well/long trench direct expansion heating/cooling system and retrofit design	WIGGS, B. RYLAND
<u>60547979</u>	Not Issued	159	02/26/2004	Deep well direct expansion system dehumidifier	WIGGS, B. RYLAND
<u>60631452</u>	Not Issued	159	11/29/2004	Direct exchange heating mode only heating means for vapor and/or liquid and/or fluid and/or solid and/or engine jacket water and/or pavement, with optional heat and/or waste heat supplement	WIGGS, B. RYLAND
<u>07660293</u>	5119889	150	02/22/1991	TUNNELING DRILL BIT	WIGGS, BARRY
<u>60522061</u>	Not Issued	159	08/09/2004	Splitter	WIGGS, BRUCE

Inventor Search Completed: No Records to Display.

Search Another: Inventor	Last Name	First Name
	<input type="text" value="wiggs"/>	<input type="text" value="b"/>
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PALM Intranet

Application Number Submit

IDS Flag Clearance for Application 10757265**IDS Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2004-04-26	10	Y <input checked="" type="checkbox"/>	2004-12-02 13:33:18.0	lparks
<input type="button" value="Update"/>					

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	R410 and geothermal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 10:42
L2	1	R410 and (direct adj expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 10:50
L3	25	R410 and refrigerant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:26
L4	809	direct adj expansion and refrigerant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:09
L5	9423	direct adj expansion and refrigerant and geothermal or (sub adj surface)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 11:30
L6	29	(direct adj expansion) and refrigerant and geothermal and compressor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:36
L7	12	(direct adj expansion) and refrigerant and (sub adj surface) and compressor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 11:55
L8	582	(direct adj expansion) and refrigerant not (sub adj surface) and compressor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:23

EAST Search History

L9	492	(direct adj expansion) and refrigerant not (sub adj surface) and compressor and condenser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 12:48
L10	424	(direct adj expansion) and refrigerant not (sub adj surface) and compressor and condenser and evaporator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 12:49
L11	363	(direct adj expansion) and refrigerant not (sub adj surface) and compressor and condenser and evaporator	USPAT; USOCR; DERWENT; IBM_TDB	OR	OFF	2006/08/13 12:49
L12	0	(direct adj expansion) and refrigerant not (sub adj surface) and compressor and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:08
L13	0	direct adj expansion and refrigerant and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:19
L14	0	(direct adj expansion) and refrigerant and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:10
L15	1	(direct adj expansion) and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:18
L16	6	DX and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:18
L17	17	geothermal and riggs	US-PGPUB	OR	OFF	2006/08/13 13:27
L18	6	DX and riggs	US-PGPUB	OR	OFF	2006/08/13 13:25
L19	6	geothermal and wiggs	US-PGPUB	OR	OFF	2006/08/13 13:34

EAST Search History

L20	3	(sub adj surface) and wiggs	US-PGPUB	OR	OFF	2006/08/13 13:34
L21	9	"5758514"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 13:50
L22	1	geothermal and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:22
L23	7	(sub adj surface) and (HFCL or R410)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:25
L24	0	polyolester and R410	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:27
L25	0	polyolester and (R410 or HFCL)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:28
L26	100	polyolester and refrigerant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:32
L27	651	tonnage and bore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 14:37
L28	0	charging with duperheat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:27

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L29	0	charging same duperheat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:28
L30	285	charging same superheat	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:28
L31	155	charging same superheat and range	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:28
L32	83	charging same superheat same range	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:37
L33	1	1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/13 15:37